

## GSP 1573-1

### POLYURETHANE POTTING SYSTEM

General Purpose, 60 Shore A Hardness, Moisture Resistant

#### GENERAL DESCRIPTION

**GSP 1573-1** is a two-part, general purpose polyurethane potting system. The low viscosity A and B components readily mix into an easily pourable potting resin. The system ultimately cures into a translucent blue, moderately soft, flexible elastomer with a hardness of 55 – 65 shore A. Fully cured, **GSP 1573-1** polymer resists degradation in applications where there is moisture exposure.

#### FEATURES

100% Reactive (contains no solvents)  
Excellent water resistance

#### COMPONENT PROPERTIES

PROPERTY	GSP 1573-1 PART A	GSP 1573-1 PART B
Shelf Life	6 months	6 months
Density (lb/gal)	9.45	8.18
Viscosity (cps)	Flowable	Flowable
Color	Blue	Amber

#### HANDLING PROPERTIES

PROPERTY	GSP 1573-1
Mix Ratio by Weight	58 A : 100 B
Mix Ratio by Volume	1A : 2B
Pot Life	1 hour
Gel Time	100 – 120 minutes
Cure Time	24 hours @ room temperature 2 hours @ 170°F

#### PHYSICAL PROPERTIES

PROPERTY	GSP 1573-1
Hardness	55 – 65 Shore A
Color	Translucent Blue
Dielectric Strength (V/mil)	384 (ASTM D149-97a Method A)
Dielectric Constant (k)	3.11 (ASTM D150-98)
Volume Resistivity ( $\Omega \cdot \text{cm}$ )	4.856E+11 (ASTM D257-99)

## INSTRUCTIONS FOR USE

### SIDE-BY-SIDE (SBS) CARTRIDGE:

The recommended method to ensure an accurate mix ratio when dispensing material from a SBS tube through a static mixer nozzle is as follows:

1. Remove the nozzle tip-cap by twisting and pulling it off. Do not discard tip cap unless all the material in SBS tube is used. Save for reattachment to seal remaining material in the SBS tube.
2. Extrude enough material until there is an even flow of material from both openings. Discard this material extruded from the SBS tube.
3. Attach the mix static nozzle by twisting it on the nozzle tip. Extrude material until ~2-3 cm (~1 inch) of material has extruded. Discard this material extruded from the mixer.
4. Material can now be applied directly to the bonding surface.
5. When application is complete and there is still material remaining in the SBS tube, remove and discard the static mix nozzle.
6. Clean the tip-cap thoroughly to prevent cross contamination of the tip openings.
7. Attach tip-cap back onto the SBS tube.

### TO MIX BY HAND:

**Mix Ratio by Volume:** 1 parts by volume GSP 1573-1 Part A to 2 parts by volume GSP 1573-1 Part B.

**Mix Ratio by Weight:** 58 parts by weight GSP 1573-1 Part A to 100 parts by weight GSP 1573-1 Part B.

**Pot-Life:** Do not mix more than can be applied in 60 minutes. Gel time is about 1 – 2 hours but will vary depending on the mass mixed and the ambient temperature.

Proportion out components according to parts by weight or volume ratio into a non-reactive container (polyethylene, polypropylene, or metal de-rimmed can). Container should be about five times larger than the volume of the mixed material. Mix components very thoroughly, preferably with a metal spatula, scraping the sides and bottom of container to incorporate all material.

If working time allows, transfer material to a clean container without scraping sides or bottom before applying. Material should be used immediately.

**Note:** During application, do not scrape sides or bottom of the container used for mixing. Residual amounts of poorly mixed material may be incorporated. Such material may fail to cure completely, and may not achieve full physical properties.

**READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET (MSDS) PRIOR TO USING THIS PRODUCT.**

### NOTICE TO USER:

The following is made in lieu of all warranties, expressed or implied. It is the customer's responsibility to determine fitness of use for all GSP products by directly testing the materials first-hand for each application. Please fully evaluate the materials so as to convince yourself of appropriate and adequate performance. Before using, customer shall determine the suitability of the product for the intended use, and customer assumes all risks and liability whatsoever in connection therewith.

The only obligation of the seller or manufacturer shall be to replace such quantity of product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. The foregoing may not be altered except by an agreement signed by officers/owners of G.S. Polymers, Inc.

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